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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

09/25/2008

Martha Ann Finnegan, Esq. Cabot Corporation 157 Concord Road Billerica, MA 01821

EXAMINER				
ZHENG, LOIS L				
ART UNIT	PAPER NUMBER			

1793 DATE MAILED: 09/25/2008

ĺ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/042,549	01/09/2002	Christopher A. Michaluk	00029CIP	5470

TITLE OF INVENTION: TANTALUM AND NIOBIUM BILLETS AND METHODS OF PRODUCING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/26/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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Billerica, MA 0	1821						(Depositor's name)
			-				(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	PR .	ATTORNEY	DOCKET NO.	CONFIRMATION NO.
10/042,549 TITLE OF INVENTION	01/09/2002 I: TANTALUM AND NI	OBIUM BILLETS AND	Christopher A. Michalt METHODS OF PRODU		000	029CIP	5470
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUI	E PREV. PAID ISSU	E FEE TO	TAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	12/26/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
ZHENG	, LOIS L	1793	148-422000				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 			or agents OR, alterna (2) the name of a sin registered attorney o 2 registered patent at listed, no name will b	e names of up to 3 registered patent attorneys nts OR, alternatively, name of a single firm (having as a member a red attorney or agent) and the names of up to tetered patent attorneys or agents. If no name is no name will be printed.			
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	patent. If an assign n assignment. 'Y and STATE OR (COUNTRY)		cument has been filed for
Please check the appropriate assignee category or categories (will not be 4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
**	ns SMALL ENTITY statu	is. See 37 CFR 1.27.	b. Applicant is no lo				R 1.27(g)(2).
interest as shown by the	records of the United Sta	tes Patent and Trademark	A Hom anyone other than A Office.	і ше аррпсані; а гед	isicica attorn	cy of agent; of the	assignee of other party in
Authorized Signature				Date			
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Martha Ann Finnegan, Esq.		ZHENG, LOIS L		
Cabot Corporation	-		ART UNIT	PAPER NUMBER
157 Concord Road Billerica, MA 01821			1793 DATE MAILED: 09/25/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/042,549	MICHALUK, CHRISTOPHER A.
Notice of Allowability	Examiner	Art Unit
	LOIS ZHENG	1793
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. X This communication is responsive to <u>amendment after final</u>	l filed 21 August 2008.	
2. ☑ The allowed claim(s) is/are <u>18-35 and 53-94</u> .		
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		
2. Certified copies of the priority documents have	e been received in Application No	·
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		- ''
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
Attachment(s)	E Notice of Informal E	latant Application
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 	 5. ☐ Notice of Informal P 6. ☐ Interview Summary 	
2. Intolice of Dranperson's Patent Drawing Review (P10-946)		
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7. ⊠ Examiner's Amendr	ment/Comment
Paper No./Mail Date <u>2/19/08,3/19/02,2/27/03</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	 9.	
	/Roy King/	
	Supervisory Patent Exa	aminer, Art Unit 1793



Application No.

Application/Control Number: 10/042,549 Page 2

Art Unit: 1793

DETAILED ACTION

Status of Claims

1. Claims 2, 18, 23, 28, 37, 53, 58, 63, 89-94 are amended in view of applicant's claim amendment filed 21 August 2008. Claims 1, 3, 9-11, 14-17, 36, 38, 44-46, 49-52, 96-97 are canceled. Therefore, claims 2, 4-8, 12-13, 18-35, 37, 39-43, 47-48, 53-95 and 98-101 are currently under examination.

Status of Previous Rejections

2. All previous rejections are withdrawn in view of applicant's arguments and declaration under 37 C.F.R 1.132 filed 21 August 2008.

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 19 February 2008 was filed after the mailing date of the Non-Final Office Action on 3 May 2007. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Luke A Kilyk on 12 September 2008.

The application has been amended as follows:

Claims 2, 4-8, 12-13, 37-48, 95 and 98-101 are canceled.

In claims 18, 23, 28, and 89-91, amend the opening of the claims "A process for making the extruded tantalum billet of claim 2, comprising" to "A process for making <u>an</u> extruded tantalum billet, comprising".

In claims 53, 58, 63, and 92-94, amend the opening of the claims "A process for making the extruded niobium billet of claim 37, comprising" to "A process for making <u>an</u> extruded niobium billet, comprising".

Reason for Allowance

- 5. Claims 18-35 and 53-94 are allowed.
- 6. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or fairly suggest, either alone, or in combination, the claimed process for making extruded cylindrical Ta or Nb billet comprising extruding a cylindrical Ta or Nb ingot having a cross section diameter of 6 to about 14 inches and metal purity of at least 99.99% at a sufficient temperature for a sufficient time to at least partially recrystallize the Ta or Nb billet during extrusion, wherein the extruded Ta or Nb ingot is about 98% or more recrystallized, has an aspect ratio of greater than 0.5 and a reduced diameter of 3.5 inches or greater, has substantially uniform grain size throughout the cross section of the billet, and has an average grain size of about 150 microns or less throughout the cross section of the billet.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Art Unit: 1793

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LOIS ZHENG whose telephone number is (571)272-1248. The examiner can normally be reached on 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Roy King/ Supervisory Patent Examiner, Art Unit 1793